BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to Someshwara Hill and surrounding areas at Attur Ward No.03 in Yelahanaka Satelite Town Sub Division

CIVIL WORKS MEASUREMENT

1ST AND PART BILL

PRE-MEASUREMENT

Sl No	Description of Items	Unit	NO	No	Length	Width	Depth	Quantity	REMARKS
1	KSRRR 200-9. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of thorney jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications. MORTH / Chapter 2								
	Measurements taken on 07/08-21 to 17/08/21								
	A to B		1	1	30.00	20.00		600.00	
			1	1	28.00	20.00		560.00	
	B to C		1	1	21.00	20.00		420.00	
			1	1	20.40	20.00		408.00	
	C to D		1	1	2.10	20.00		42.00	
	D to E		1	1	11.40	25.00		285.00	
	E to F		1	1	11.90	25.00		297.50	
	F to G		1	1	7.00	25.00		175.00	
	G to H		1	1	30.00	25.00		750.00	
	H to I		1	1	8.60	25.00		215.00	
	I to J		1	1	25.00	30.00		750.00	
			1	1	5.40	30.00		162.00	
	J to K		1	1	6.20	30.00		186.00	
	K to L		1	1	9.50	30.00		285.00	
	L to M		1	1	19.70	30.00		591.00	
	M to N		1	1	7.34	30.00		220.20	
	N to O		1	1	28.90	30.00		867.00	
	O to P		1	1	30.00	30.00		900.00	
			1	1	7.60	30.00		228.00	
	P to Q		1	1	25.00	30.00		750.00	
			1	1	25.00	30.00		750.00	
			1	1	13.90	30.00		417.00	
	Q to R		1	1	22.50	30.00		675.00	
	R to S		1	1	22.60	20.00		452.00	
	T to U		1	1	8.40	10.00		84.00	
			1	1	5.10	10.00		51.00	
	V to W		1	1	12.90	10.00		129.00	
	W to X		1	1	30.00	10.00		300.00	
			1	1	7.60	10.00		76.00	
		SQM				**Present Qty**		**11625.70**	

Chd 1 RC

DDR INFRA Date 30/11/2021 BENGALURU

CONTRACTOR

PMC

ASSISTANT ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

ASST. EXECUTIVE ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Sl	Description of Items	Unit	NO	No	Length	Width	Depth	Quantity	REMARKS
2	KSRRB 300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications, 8km lead								
	Measurements taken on 18/08/21 to 2/09/21								
	A to B		1	1	10.80	1.30	1.10	15.44	
			1	1	17.30	1.30	1.10	24.74	
			1	1	14.30	1.30	1.10	20.45	
			1	1	15.60	1.30	1.10	22.31	
	B to C		1	1	21.00	1.30	1.10	30.03	
			1	1	20.40	1.30	1.10	29.17	
	C to D		1	1	2.10	1.30	0.85	2.32	
	D to E		1	1	11.40	1.30	0.85	12.60	
	E to F		1	1	11.90	1.30	1.30	20.11	
	F to G		1	1	7.00	1.30	1.30	11.83	
	G to H		1	1	30.00	1.30	1.30	50.70	
	H to I		1	1	8.60			Cancelled	Gate Portion
	I to J		1	1	25.00	1.30	1.30	42.25	
			1	1	5.40	1.30	1.30	9.13	
	J to K		1	1	6.20	1.30	1.30	10.48	
	K to L		1	1	9.50	1.30	1.30	16.06	
	L to M		1	1	19.70	1.30	1.30	33.29	
	M to N		1	1	7.34	1.30	1.30	12.40	
	N to O		1	1	28.90	1.30	1.10	41.33	
	O to P		1	1	30.00	1.30	1.10	42.90	
			1	1	7.60	1.30	1.10	10.87	
	P to Q		1	1	25.00	1.30	1.30	42.25	
			1	1	25.00	1.30	1.30	42.25	
			1	1	13.40	1.30	1.30	22.65	
	Q to R		1	1	22.50	1.30	0.85	24.86	
	R to S		1	1	22.60	1.30	1.10	32.32	
	T to U		1	1	8.40	1.30	1.30	14.20	
			1	1	5.10	1.30	0.15	0.99	
	V to W		1	1	12.90	1.30	1.30	21.80	
	W to X		1	1	30.00	1.30	1.76	68.64	
			1	1	7.60	1.30	1.76	17.39	
		CUM				Present Qty		745.75	

S.K. INFRA Date 30/11/2021 BENGALURU

CONTRACTOR

PMC

ASSISTANT ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP Bangalore - 92

ASST. EXECUTIVE ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Sl	Description of Items	Unit	NO	No	Length	Width	Depth	Quantity	REMARKS
3	KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications. MORTH Specification No. 301								
	Measurements taken on 15/08/21 to 3/09/21								
	A to B		1	1	10.80	9.00	0.60	58.32	
			1	1	17.30	9.00	0.60	93.42	
			1	1	14.30	9.50	0.50	67.93	
			1	1	15.60	9.00	0.50	70.20	
	B to C		1	1	21.00	9.50	0.55	109.73	
			1	1	20.40	9.50	0.60	116.28	
	C to D		1	1	2.10	9.50	0.60	11.97	
	D to E		1	1	11.40	15.00	0.80	136.80	
	E to F		1	1	11.90	15.00	0.80	142.80	
	F to G		1	1	7.00	15.00	0.80	84.00	
	G to H		1	1	30.00	15.00	0.80	360.00	
	H to I		1	1	8.60	15.00	0.80	103.20	
	I to J		1	1	25.00	15.00	0.80	300.00	
			1	1	5.40	15.00	0.80	64.80	
	J to K		1	1	6.20	15.00	0.80	74.40	
	K to L		1	1	9.50	15.00	0.60	85.50	
	L to M		1	1	19.70	15.00	0.60	177.30	
	M to N		1	1	7.34	15.00	0.60	66.06	
	N to O		1	1	28.90	15.00	0.60	260.10	
	O to P		1	1	30.00	15.00	0.60	270.00	
			1	1	7.60	15.00	0.60	68.40	
	P to Q		1	1	25.00	10.00	0.60	150.00	
			1	1	25.00	10.00	0.60	150.00	
			1	1	13.40	10.00	0.60	80.40	
	Q to R		1	1	22.50	10.00	0.60	135.00	
	R to S		1	1	22.60	10.00	0.80	180.80	
	T to U		1	1	8.40	3.00	0.50	12.60	
			1	1	5.10	3.00	0.50	7.65	
	V to W		1	1	12.90	3.00	0.50	19.35	
	W to X		1	1	30.00	3.00	0.50	45.00	
			1	1	7.60	3.00	0.50	11.40	
		CUM				Present Qty		3513.40	

DSR INFRATECH BENGALURU Date 30/11/2021

G of J & Co P. Ramesh Rao
CONTRACTOR

PMC

ASSISTANT ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASST. EXECUTIVE ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Sl No	Description of Items	Unit	NO	No	Length	Width	Depth	Quantity	REMARKS
5	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.								
	Measurements taken on 03/09/21 to					17/09/21			
	SSM PCC								
	A to B		1	1	10.80	1.30	0.15	2.11	
			1	1	17.30	1.30	0.15	3.37	
			1	1	14.30	1.30	0.15	2.79	
			1	1	15.60	1.30	0.15	3.04	
	B to C		1	1	21.00	1.30	0.15	4.10	
			1	1	20.40	1.30	0.15	3.98	
	C to D		1	1	2.10	1.30	0.15	0.41	
	D to E		1	1	11.40	1.30	0.15	2.22	
	E to F		1	1	11.90	1.30	0.15	2.32	
	F to G		1	1	7.00	1.30	0.15	1.37	
	G to H		1	1	30.00	1.30	0.15	5.85	
	H to I		1	1	8.60			Cho Hole	Gate Portion
	I to J		1	1	25.00	1.30	0.15	4.88	
			1	1	5.40	1.30	0.15	1.05	
	J to K		1	1	6.20	1.30	0.15	1.21	
	K to L		1	1	9.50	1.30	0.15	1.85	
	L to M		1	1	19.70	1.30	0.15	3.84	
	M to N		1	1	7.34	1.30	0.15	1.43	
	N to O		1	1	28.90	1.30	0.15	5.64	
	O toP		1	1	30.00	1.30	0.15	5.85	
			1	1	7.60	1.30	0.15	1.48	
	P to Q		1	1	25.00	1.30	0.15	4.88	
			1	1	25.00	1.30	0.15	4.88	
			1	1	13.90	1.30	0.15	2.71	
	Q to R		1	1	22.50	1.30	0.15	4.39	
	R to S		1	1	22.60	1.30	0.15	4.41	
	T to U		1	1	8.40	1.30	0.15	1.64	
			1	1	5.10	0.60	0.15	0.46	
	V to W		1	1	12.90	1.30	0.15	2.52	
	W to X		1	1	30.00	1.30	0.15	5.85	
			1	1	7.60	1.30	0.15	1.48	
		CUM				**Present Qty**		**91.98**	

DSR Infra Tech Pvt. Ltd. Date 30/11/2021 BENGALURU

CONTRACTOR

PMC

ASSISTANT ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASST. EXECUTIVE ENGINEE
YELAHANKA PROJECT DIVISIO
BBMP BANGLOR

Sl No	Description of Items	Unit	NO	No	Length	Width	Depth	Quantity	REMARKS
7	KSRB 4-1.5 : Providing and laying in position plain cement concrete of Mix M20 with OPC @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications.								
	Measurements taken on 27/09/21 to 29/10/21								
	Columns up to plinth beam bot From (A to B)		1	8	0.25	0.45	0.65	0.59	
	Columns up to plinth beam bot From (A to B)		1	6	0.55	0.45	0.65	0.97	
	Columns up to plinth beam bot From (B to C)		1	5	0.25	0.45	0.65	0.37	
	Columns up to plinth beam bot From (B to C)		1	6	0.55	0.45	0.65	0.97	
	FootingFrom (A to C)		1	13	1.10	1.10	0.30	4.72	
			1	12	1.10	2.10	0.30	8.32	
		CUM				**Present Qty**		**15.92**	

DSR INFRATECH Date 30/10/21 BENGALURU

CONTRACTOR PMC

ASSISTANT ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASST. EXECUTIVE ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Sl No	Description of Items	Unit	NO	No	Length	Width	Depth	Quantity	REMARKS
13	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications.								
	Measurements taken on 26/09/21 to 29/10/21								
	Compund wall								
	Columns up to plinth beam bot From (A to B)		2	8	0.55		0.90	7.92	
			2	8		0.45	0.90	6.48	
	Columns up to plinth beam bot From (A to B)		2	6	0.25		0.90	2.70	
			2	6		0.45	0.90	4.86	
	Columns up to plinth beam bot From (B to C)		2	6	0.55		0.90	5.94	
			2	6		0.45	0.90	4.86	
	Columns up to plinth beam bot From (B to C)		2	5	0.25		0.90	2.25	
			2	5		0.45	0.90	4.05	
	FootingFrom (A to C)		4	13	1.10		0.30	17.16	
			2	12	1.10		0.30	7.92	
			2	12	2.10		0.30	15.12	
		SQM				Present Qty		79.26	

Ch. 1 Pk

DSR INFRATECH BENGALURU 30/11/2021 Date.....

CONTRACTOR

T. Ramesh Reddy

PMC

ASSISTANT ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASST. EXECUTIVE ENGINE
YELAHANKA PROJECT DIVISI
BBMP BANGLO

Sl No	Description of Items	Unit	NO	No	Length	Width	Depth	Quantity	REMARKS
19	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13								
	Measurements taken on 17/9/21 to 29/9/21								
	SSM								
	A to B		1	1	30.00	1.00	0.46	13.80	
			1	1	30.00	0.80	0.46	11.04	
			1	1	28.00	1.00	0.46	12.88	
			1	1	28.00	0.80	0.46	10.30	
	B to C		1	1	21.00	1.00	0.46	9.66	
			1	1	21.00	0.80	0.46	7.73	
			1	1	20.40	1.00	0.46	9.38	
			1	1	20.40	0.80	0.46	7.51	
	C to D		1	1	2.10	1.00	0.46	0.97	
			1	1	2.10	0.80	0.23	0.39	
	D to E		1	1	11.40	1.00	0.46	5.24	
			1	1	11.40	0.80	0.69	6.29	
	E to F		1	1	11.90	1.00	0.46	5.47	
			1	1	11.90	0.80	0.69	6.57	
	F to G		1	1	7.00	1.00	0.46	3.22	
			1	1	7.00	0.80	0.69	3.86	
	G to H		1	1	30.00	1.00	0.46	13.80	
			1	1	30.00	0.80	0.69	16.56	
	H to I		1	1	8.60			8.60	Gate Portion
	I to J		1	1	25.00	1.00	0.46	11.50	
			1	1	25.00	0.80	0.69	13.80	
			1	1	5.40	1.00	0.46	2.48	
			1	1	5.40	0.80	0.69	2.98	
	J to K		1	1	6.20	1.00	0.46	2.85	
			1	1	6.20	0.80	0.69	3.42	
	K to L		1	1	9.50	1.00	0.46	4.37	
			1	1	9.50	0.80	0.69	5.24	
	L to M		1	1	19.70	1.00	0.46	9.06	
			1	1	19.70	0.80	0.69	10.87	
	M to N		1	1	7.34	1.00	0.46	3.38	
			1	1	7.34	0.80	0.69	4.05	
	N to O		1	1	28.90	1.00	0.46	13.29	
			1	1	28.90	0.80	0.46	10.64	
	O toP		1	1	30.00	1.00	0.46	13.80	
			1	1	30.00	0.80	0.46	11.04	
			1	1	7.60	1.00	0.46	3.50	
			1	1	7.60	0.80	0.46	2.80	

D S K INFRATECH BENGALURU Date 30/11/21

38.34

CONTRACTOR

PMC

ASSISTANT ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

ASST. EXECUTIVE ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Asst. Executive Engineer
Project Division
Yelahanka Zone

Sl No	Description of Items	Unit	NO	No	Length	Width	Depth	Quantity	REMARKS
	P to Q		1	1	25.00	1.00	0.46	11.50	
			1	1	25.00	0.80	0.69	13.80	
			1	1	25.00	1.00	0.46	11.50	
			1	1	25.00	0.80	0.69	13.80	
			1	1	13.90	1.00	0.46	6.39	
			1	1	13.40	0.80	0.69	7.40	
	Q to R		1	1	22.50	1.00	0.23	5.18	
			1	1	22.50	0.80	0.46	8.28	
	R to S		1	1	22.60	1.00	0.46	10.40	
			1	1	22.60	0.80	0.46	8.32	
	T to U		1	1	8.40	0.80	0.30	2.02	
			1	1	8.40	0.65	0.30	1.64	
	V to W		1	1	12.90	1.00	0.46	5.93	
			1	1	12.90	0.80	0.69	7.12	
	W to X		1	1	30.00	1.00	0.46	13.80	
			1	1	30.00	0.80	0.69	16.56	
			1	1	30.00	0.65	0.46	8.97	
			1	1	7.60	1.00	0.46	3.50	
			1	1	7.60	0.80	0.69	4.20	
			1	1	7.60	0.65	0.46	2.27	
	Dedductions		1	-13	0.25	0.45	0.69	-1.01	
			1	-12	0.55	0.45	0.69	-2.05	
		CUM				**Present Qty**		**441.86**	

DSR INFRATECH Date 30/4/2021 BENGALURU

CONTRACTOR PMC

ASSISTANT ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASST. EXECUTIVE ENGINEEI
YELAHANKA PROJECT DIVISION
BBMP BANGLORI

Sl No	Description of Items	Unit	NO	No	Length	Width	Depth	Quantity	REMARKS
70	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500								
	Measurements taken on 27/09/21 to 29/10/21								
	Footing reinforecement							0.68	
	Column reinforecement							1.45	
	Plinth Beam reinforcement							1.44	
		tonne				**Present Qty**		**3.58**	

DSR INFRATECH Date 30/11/2021 BENGALURU

CONTRACTOR

PMC

ASSISTANT ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASST. EXECUTIVE ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Sl	Description of Items	Unit	NO	No	Length	Width	Depth	Quantity	REMARKS
71	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. In depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. Including cost of all labour complete as per specifications. No. KBS 2.9								
	Measurements taken on 05/11/21								
	Filling available excavated earth								
	Excavation Qty							**745.7489**	
	PCC Qty							-91.52	
	SSM Qty							-441.86	
	Footing and colum concrete Qty							-15.92	
		CUM				**Present Qty**		**196.45**	

DSR INFRATECH BENGALURU Date 30/11/2021

CONTRACTOR

PMC

ASSISTANT ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASST. EXECUTIVE ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Name of Work: Improvements to Someshwara Hill and surrounding areas at Attur Ward No 83 in Yelahanka Satellite Town Sub Division

Steel Calculation Sheet

Member		Bar	Bar type	Bar Dia	Spacing	Total Spacing in mm	No Of Components	No Of Bars On Each Face	No Of Bars	Shape Of Bar(all dimensions are in MM)	Length Of Each Bar(Mm)	Total length (M)	Unit Wt(Kg/M)	Total Weight	Remarks
FOOTING	BOTTOM MAT	Main	1	12	150	1000	37	8	296	150 — 1000 — 150	1300	384.8	0.89	342.47	
		Dist	2	12	150	1000	37	8	296	150 — 1000 — 150	1300	384.8	0.89	342.47	
											Total kgs			684.94	
											Total tonne			0.68	TONNE
COLUMNS	VERTICAL	Main	3	12	1		37	6	222	4170 / 300	4470	992.34	0.89	883.18	
		TIE BARS	4	8	150	4170	37	29	1073	400 / 100 / 180	1360	1459.28	0.39	569.12	
											Total kgs			1452.3	
											Total tonne			1.45	TONNE

DSR INFRATECH BENGALURU Date 30/11/2024

CONTRACTOR

PMC

ASSISTANT EXECUTIVE ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASST.EXECUTIVE ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

11

PLINTH BEAM															
COMPOUND WALL SIDE		Main	5	12	1		1	6	6	41400	41400	248.4	0.89	221.08	
		TIE BARS	6	8	150	41400	1	277	277	250 / 45 / 350	1350	373.95	0.395	147.71	
		Main	7	12	1		1	6	6	58000-2000	56000	336	0.89	299.04	
		TIE BARS	8	8	150	56000	1	374	374	250 / 45 / 350	1350	504.9	0.395	199.44	
ASHRAM ENTRANCE SIDE															
		Main	9	12	1		1	6	6	37600	37600	225.6	0.89	200.78	
		TIE BARS	10	8	150	37600	1	252	252	250 / 45 / 350	1350	340.2	0.395	134.38	
		Main	11	12	1		1	6	6	12900	12900	77.4	0.89	68.89	
		TIE BARS	12	8	150	12900	1	87	87	250 / 45 / 350	1350	117.45	0.395	46.39	
		Main	13	12	1		1	6	6	13500	13500	81	0.89	72.09	

CONTRACTOR

PMC

D S R INFRA PVT. LTD. BENGALURU 30/11/2021 Date

ASSISTANT EXECUTIVE ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASST.EXECUTIVE ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

		TIE BARS	14	8	150	13500	1	91	91		1350	122.85	0.395	48.53	
												Total kgs		1438.33	
												Total tonne		1.44	TONNE

CONTRACTOR

PMC

SR INFRATECH BENGALURU Date 30/11/2021

ASSISTANT EXECUTIVE ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASST.EXECUTIVE ENGINEER
YELAHANKA PROJECT DIVISION
BBMP BANGLORE

13